



## PATENT ABSTRACTS OF JAPAN

(11) Publication number: 05240258 A

(43) Date of publication of application: 17.09.93

(51) Int. Cl. F16C 33/62  
F16C 33/32  
F16C 33/34

(21) Application number: 04040849

(71) Applicant: NTN CORP

(22) Date of filing: 27.02.92

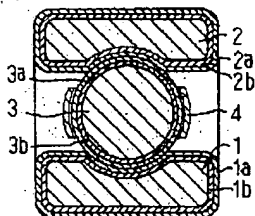
(72) Inventor: KONDO HIROMITSU  
YAMADA HIROSHI

## (54) ROLLING BEARING FOR SEMICONDUCTOR MANUFACTURING FACILITY

## (57) Abstract:

PURPOSE: To provide a rolling bearing for semiconductor manufacturing facility which is suitable for the use under corrosive atmosphere.

CONSTITUTION: On the rolling surfaces of inner and outer wheels 1, 2 and the surface of a rolling body 3, bed layers 1b, 2b, 3b consisting of a titanium material are formed, respectively, and lubricating films 1a, 2a, 3a consisting of a polytetrafluoroethylene having an average molecular weight less than 5000 are formed on the layers. The bed layers 1b, 2b, 3b are obtained by coating the surfaces with Ti, or TiN, TiC or the like which is a Ti compound by means of ion plating, and the bed layers 1b, 2b, 3b formed by use of these titanium materials have corrosion resistance and effectively protect a base material from a corrosive material such as corrosive gas.



COPYRIGHT: (C)1993,JPO&amp;Japio